



# ALR-8696-C

## LOW VSWR/AXIAL RATIO ANTENNA

The Alien Technology ALR-8696-C is a high-performance, worldwide, circular-polarized antenna for use in demanding applications. The antenna is certified for use with all Alien fixed readers.

### FEATURES

- Extremely low VSWR and axial ratio
- Wide band antenna for worldwide applications
- Low Profile
- Weather and UV resistant radome
- 20 ft. cable with reverse polarity TNC connector
- RoHS EU 2002/95/EC compliant

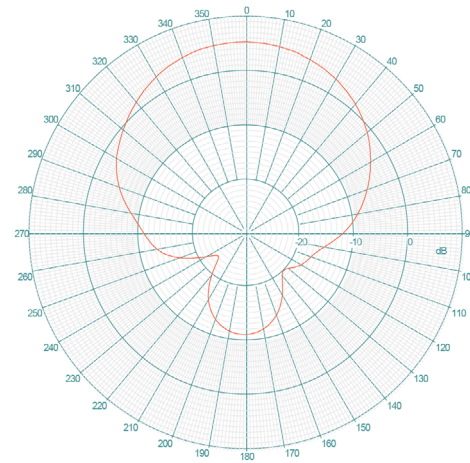
### APPLICATIONS

- Warehouses
- Distribution centers
- Airports and hospitals
- Transit terminals
- Conveyer belts

Benefit	Enabled By:	What does this mean to me?
Wide band antenna	865 - 960 MHz antenna	Single antenna for worldwide usage
A thin antenna with no protrusions	Low profile	Enables mounting where objects may otherwise hit or damage a larger antenna
Built to keep the elements out	Weather and UV resistant	Designed for a variety of inside and outside applications that demand a robust IP54 antenna
Highly efficient antenna	Extremely low VSWR and axial ratio	Read tags in challenging environment and/or at greater distances. Very robust read capability regardless of tag orientation.

The Alien Technologies ALR-8696-C antenna is a circularly polarized panel antenna that provides reception and transmission of signals in the 865-960 MHz frequency band. The design methodology achieves maximum efficiency and performance across the entire frequency band and tag orientations.

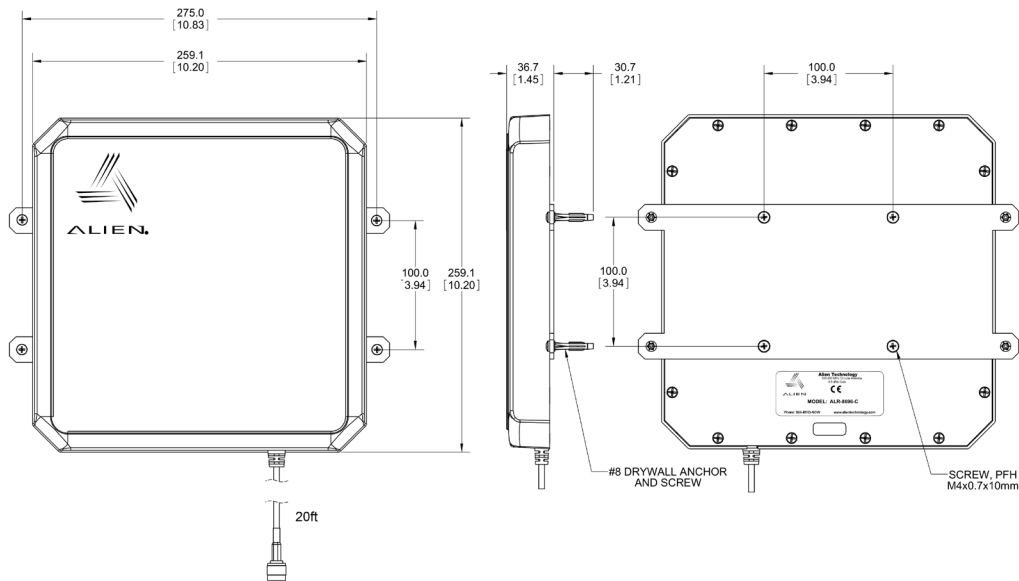
Both VSWR and axial ratios are both excellent and allow the user to achieve the maximum performance for an antenna of this type. The antenna is housed in a heavy duty radome enclosure that can be directly wall mounted.





# ALR-8696-C Low VSWR/AXIAL RATIO ANTENNA

Parameter	Application
Antenna Part number	ALR-8696-C
Frequency Range	865 - 960 MHz
Gain	8.5 dBic
Cable loss	2.2dB (20ft)
Maximum VSWR	1.4:1
3 dB Beamwidth - Azimuth	65°
Front to Back Ratio	20 dB
Polarization	Circular Right-hand
Maximum Input Power	2 Watts
Input Impedence	50 ohms
Axial Ratio	1.2dB
Weight (Kg)	2.5 lbs (1.13)
Mechanical Size	10.2" x 10.2" x 1.32"
Antenna Connection	Coax Pigtail, Rev TnC Male
Radome	High Strength PC
Mount Style	100mm VESA mounting plate
Temperature operational	-25°C to +70°C
Humidity	MILSTD-810G, Method 507.5 Procedure II Aggravated
Lightning Protection	DC Grounded
Environmental Rating	IP 54



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HANDLING PRECAUTIONS Observe standard handling practices to minimize ESD.  
DISCLAIMER Application recommendations are guidelines only - actual results may vary and should be confirmed. This is a general purpose product not designed or intended for any specific application.

This product is covered by one or more of the following U.S. patents: 7967204, 7931063, 7868766, 7737825, 7716208, 7716160, 7688206, 7671720, 7659822, 7619531, 7615479, 7598867, 7580378, 7576656, 7562083, 7561221, 7559486, 7559131, 7554451, 7551141, 7542301, 7542008, 7522055, 7500610, 7489248, 7453705, 7452748, 7425467, 7417306, 7411503, 7385284, 7377445, 7364084, 7353598, 7342490, 7324061, 7321159, 7301458, 7295114, 7288432, 7265675, 7262686, 7193504, 7173528, 7172789, 7141176, 7113250, 7101502, 7080444, 7070851, 7068224, 7046328, 6998644, 6988667, 6985361, 6980184, 6970219, 6952157, 6942155, 6933848. Other patents pending.

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